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Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2013-14

Date: 04.09.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 04.09.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Date of Testing : 04.09.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	101	5.05	5.05	95.0	90-100
2.36	225	11.25	16.30	83.7	75-100
1.18	523	26.15	42.45	57.6	55-90
600 Micron	418	20.90	63.35	36.7	35-59
300 Micron	485	24.25	87.60	12.4	8-30
150 Micron	204	10.20	97.80	2.2	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 04.09.2013

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Date of Testing : 04.09.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	992	3.97	3.97	96.03	95-100
20	15168	60.67	64.64	35.36	30-70
10	5936	23.74	88.38	11.62	10-35
4.75	2564	10.26	98.64	1.36	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2013-14 04.09.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West)**, KRIDL, Bangalore.
Name of the work	:	Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
Date of Test	:	04.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	549	12.90	O.K	O.K
2	10	0.59	517	553	13.45	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2013-14 03.10.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.09.2013	03.10.2013	8.145	485.2	21.56
2	05.09.2013	03.10.2013	8.257	497.6	22.12
3	05.09.2013	03.10.2013	8.369	502.7	22.34

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Job No.: CTCE/BBMP/W.No.14/KRIDL/WBM-II/2013-14 Date: 16.09.2013

REPORT

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	13.09.2013
Date of Testing	:	16.09.2013

1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	95.75	90-100
53mm	31.40	25-75
45mm	9.70	0-15
22.4mm	1.65	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/WBM-III/2013-14 Date: 18.09.2013

REPORT

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Improvements to Drains and Roads at Navya layout of Sidedahalli Village in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
Type of Mix	:	Water Bound Macadam (Grade-III Metal)
Date of Sampling	:	15.09.2013
Date of Testing	:	18.09.2013

1) SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
63mm	100.00	100.00
53mm	98.15	95-100
45mm	63.80	65-90
22.4mm	6.35	0-10
11.2mm	2.20	0-5

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